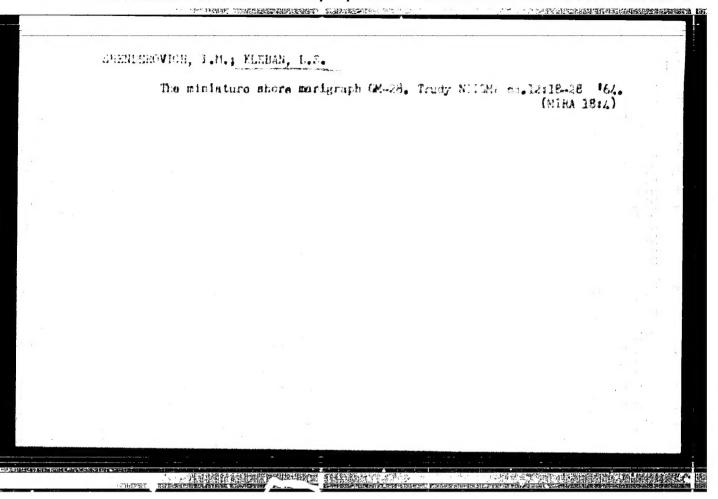
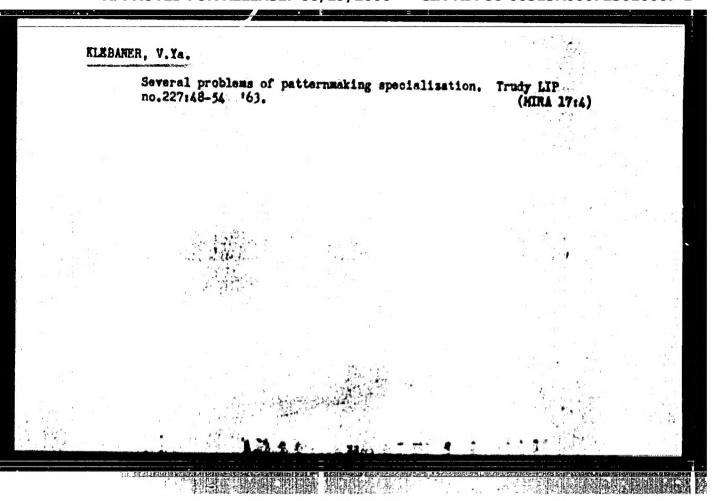
1997年 1991年 1797年 1898年 1898年 1997年 · 一个人的现在分词,但是对他们的对象的。 ACCESSION NR: AT4038815 cm/min; 9-mm washer to simulate "intermediate speeds of level variation" at 1.4 cm/min). The results of laboratory tests using this type of set-up are described in the article. Orig. art. has: 4 figures, 3 formulas and 5 tables. ASSOCIATION: Nauchno-issledovateliskiy institut gldrometeorologicheskogo priborostroyenlya, Leningrad. (Scientific Research institute of Hydrometeorological SUBMITTED: 00 DATE ACQ: 12Jun64 ENCL: SUB CODE: NO REF SOV: 004 OTHER: 3/3 

#### "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1





VELIKANOV, K.M.; KLEBANER, V.Ya.

Method for calculating the economic efficiency of substituting castings with rolled billets. Trudy LIP no.227:97-112 '6).

(MIRA 17:4)

"但"等于"主义理"的规则是国际外上的 为。对在位于了

COSTANDAMENTAL STATEMENT OF THE STATEMEN

KLEBANER, Vladimir-Yakovlevich; CHERNIKOV, Vladimir Sergeyevich; LIPNITSKIY, A.M., red.; ALAM SHEVA, N.A., red.izd-va; GVIRTS, V.L., tekhn. red.

[Mechanizing the wooden patternmaking processes; practices of the Neva Machinery Mamufacturing Plant] Mekhanizatsiia derevomodel nogo proizvodstva; opyt Nevakogo mashinostroitel nogo zavoda im. V.I.Lenina. Leningrad, 1963. 13 p. (Leningradskii dom nauchnostekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Liteinoe proizvodstvo, no.3) (MIRA 17:1)

THE THE LEADER THE PARTY WITH THE PARTY WITH



KLEBANER, V.Ya.

Classification of foundry-mould sets as the basis for the organization of specialized production. Trudy IPI no.244: 34-43 165. (MIRA 18:5)

THE THE PROPERTY WAS ASSESSED.

DARDIK, F.G.: KOSTINA, K.A.: KIMBAHOV, A.Ya.

Suppression of an outbreak of infectious hepatitis in rural districts. Zdrav. Kasakh. 17 no.6:31-35 157. (MIRA 12:6)

1. Iz Kazakhekoy respublikanskoy sanepidetanteii i Yukhno-Kazakhetanekoy oblastnoy sanepidetanteii. (SOUTH-KAZAKHSTAN PROVINCE--HEPATITIS, INFACTIOUS)

THE STATE OF THE S

KLEBANOV, A.Ya., insh.

Supports for vertical apparatus of the chemical industry. Prom. stroi. 42 no.1:20-21 '65. (MIRA 18:3)

1. TSentral'nyy nauchno-isaledovatel'akiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.

# PHASE I BOOK EXPLOITATION

Spravochnik na metalloizdeliya promyshlennogo naznacheniya. 241 po Gosudarstvennym standartam 1 tekhnicheskim usloviyam (Handbook of Metal Products for Industrial Uses. Compiled According to State Standards and Technical Specifications) Moscow, Metallurgizdat, 1957. 594 p. 13,500 copies printed.

Belen'kiy, Yakov Grigor'yevich; Gorzhevskiy, Grigoriy Yakovlevich; Klebanov, Bentsion Davidovich; Rd.: Kadykov, N. 1.; Ed. of Publishing House: Valov, N. A.; Compilers:

Tech. Ed.: Attopovich, M. K.

PURPOSE:

The handbook is designed for engineering and technical personnel of all branches of industry and also for service

personnel of supply and marketing organizations.

COVERAGE: The handbook provides specification data on metal products:

steel wire rope, nails, bolts, rivets, screws, etc.

Chemical composition, mechanical and other properties of

Card 1/26

"Handbook of Metal Products for Industrial Uses. (Cont.)

241

the products are given and the regulations relative to supply of metal products under the current standards are presented. The book also gives brief recommendations for consumers, tables of theoretical weights and dimensions, nomenclature of metal products handled by Glavmetallosbyt (Main Administration for the Marketing of Ferrous Metals) and a list of this organization's offices, metal-supply bases and metal products warehouses. Information is given on shapes, dimensions, and brands of steel approved as of October 1, 1956 as conforming to the state standards and technical specifications. Approved shapes and dimensions not yet in production are entered in parentheses. There are no references.

Card 2/20

KLEBANOV, B.M.

Derivatives of nicotinic acid as hyposholesterinemic agents. Vrach. delo no.1:91-93 Ja'64 (MIRA 17:3)

1. Kafedra farmakologii ( zav. - doystvitel'nyy chlen AMS SSSR, prof. A.I.Cherkes) Kiyevakogo meditainakogo instituta.

。 1975年初19 5年初期開始時期日報開於1 191至日前550

## ZHUKOVSKIY, L.I.; KLKBANOV, B.M.

Side effects of convallatoxin. Vrach.delo no.10:120-121 0 \*60.

(MIRA 13:11)

1. Terapevticheskoye otdeleniye (sav. - L.I.Zhukovskiy) Vasil\*kovskoy rayonnoy bol\*nitsy Kiyevskoy oblasti.

(CONVALLATOXIE)

KLEBANOV, B. S.

USSR/Electronics - Combined Systems Carrier Telephony

Jul 52

"Long-Distance High-Frequency Telephone Communications Along Electric Power Transmission Lines," Cand Tech Sci I. K. Bobrovskaya, Ya. L. Bykhovskiy and K. P. Yegorov and Engrs B. S. Elebanov, V. I. Medvedev, and N. K. Myakochina

"Elektrichestvo" No 7, pp 41-46

Gives basic data for apparatus EPO-1 (single-sideband, 84 one-way channels) designed for hf telephony along power transmission lines. Work was begun in 1945 by Central Sci Res Elec Eng Iab, and prototypes were developed, with participation of this lab, by plant of Min of Commun Equip Ind in conjunction with Chair of Long-Distance Commun of Elec Eng Inst of Commun imeni Bonch-Bruyevich. Experimental samples of EPO-1 have been placed in continuous operation. Submitted 19 Oct 51.

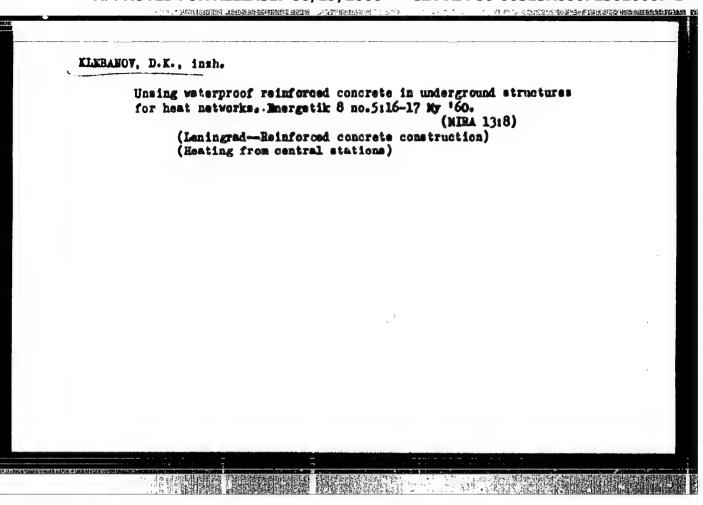
PA 237T41

> [Repairing motor vehicles and tractors] Memont avtogobilei i traktorov. Noskva, Gos.nauchmo-tekhn.isd-vo meshinostroit. lit-ry. Pt.1. 1961. 335 p.

(4) 13 (4) 14 (4) 1

(MIRA 14:5)

(Motor vehicles-Meintenance and repair) (Tractirs-Meintenance and repair)



### "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1

Kizbanov, f.t. (Loningrad)

New developments in central heating in leningrad. Energetik
13 no.516-7 My '65. (MIRA 18:8)

1. Starshly inzh. otdela kapital'nogo stroitel'stwa Leningrad-skogo rayonnogo upravleniya energeticheskogo khozywystwa.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1"

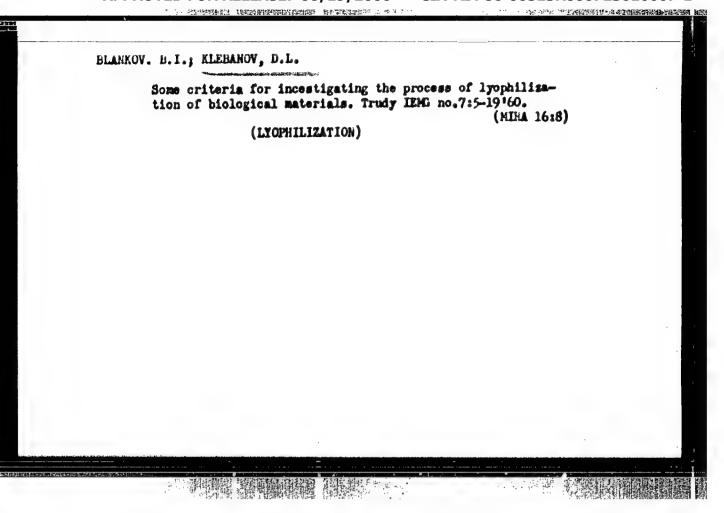
1. 现代的证明的是一些种的证明的的的证明,但是他的现在是一个人。

也一点。17.3%以中国的原理,但是在基本型的地域是国际的的。

KLEBANOV, Boris Vladimirovich, insh.; KUZ'MIN, Vladimir Grigor'yevich,
insh.; MASLOV, Vladimir Ivanovich, insh.; LEONOV, I.S., insh.,
retsenzent; SOROKIN, A.A., insh., retsenzent; PILIPENKO, Yu.P.,
insh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Repair of motor vehicles and tractors]Remont avtomobilei i traktorov. Pod red. s. V. Klebanova. Moskva, Mashgis. Pt.2. 1962. 301 p. (HIRA 16:2)

(Motor vehicles--Maintenance and repair) (Tractors--Maintenance and repair)



ELANKOV, B.I.; KLEBANOV, D.L.

Evalutation of apparatus for the lyophilization method of "unequal loading". Trudy IEMS no.7:20-27\*60. (MI:A 16:8)
(LYOPHILIZATION) (BIOLOGICAL APPARATUS AND SUPPLIES)

BLANKOV, B.I.; KLEBANOV, D.L.

Laboratory apparatus of the sorption type for lyophile drying of biological materials. Lab. delo 6 no.5147-49 5-0 '60.

1. Moskovskiy nauchno-issledovatel skiy institut epidemiologii, mikrobiologii i gigiyeny (dir. S.I. Didenko). (BIOLOGICAL PRODUCTS...DRYING)

1. 155 大公公司 自己的人民工程的公司的政治的政治的政治的政治的国际政治的。

BLANKOV, Boris Israilevich; <u>KLEBANOV</u>, <u>David Livovich</u>; PARNES, Ya.A., red.; ROMANOVA, Z.A., tekhn. red.

[Use of lyophilization in microbiology] Primenenie liofilizatsii v mikrobiologii. Moskva, Medgis, 1961. 262 p. (MIRA 14:12) (FREEZE-DRYING) (MICROBIOLOGY-TECHNIQUE)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1"

#### KLEBANOV, F.G.; BYCHKOV, V.I.

Reaction of the peritoneum to tale. Khirurgiia 37 no.2:115-116 P '61. (MIRA 14:1)

1. Is Moskovskoy gorodskoy bol'nitsy No.56 (glavnyy vrach A.A. Kolomeytseva).

(PERITONEUM-DISEASES) (TALC)

### "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723010007-1

KLC BAKE U, FS

Control of gas emanations in depleted areas. Ugol' 32 no.10:31-34 0 \*57. (MIRA 10:11)

AUTHOR: TITLE

On Air Flow in Workings where there is Goaf. (O dvisheniye vosdukha,

po gornym vyrabotkam pri nalichii vyrabotannykh prostranstv, Russian) Doklady Akademii Nauk SSSR. 1957. Vol 113, Nr 4, pp 766-768 (U.S.S.R.)

PERIODICALA Received: 6 / 1957 Reviewed: 7 / 1957

ABSTRACT

The present work describes a method for the general qualitative estimation of the air flow along the worked out parts in a mine. This method is well suited for calculation of the quantity of air flowing off through this working. Such analyses and computations are necess-

ary for the projecting of ventilation in mines. First, the equation for the air motion in such a working is given. This equation is, in general, not integratable, but with some additional assumptions and simplifications mathematical difficulties are removed, but thereby the physical problem is changed and a qualitatively correct solution is no longer obtained. The solutions suggested in various previous works are not general enough. In a limited interval (e.g. 0 < x < 300 m) it is possible to obtain an approximated solution of such an equation by means of such a method in which, instead of contimuously distributed outflows of air, the air is considered as a concentrated ("fictitious") flow. This flow branches off at a certain point from the ventilation jet. With this method there are no restrictions with respect to the exponent n in the law of air resist-

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1"

124-58-9-9738D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 37 (USSR)

AUTHOR: Klebanov, F.S.

TITLE: The Influence of Worked-out Areas on the Aerodynamic and Gasdynamic Processes Occurring in Mine Shafts (Vliyaniye

vyrabotannykh prostranstv na aerogazodinamicheskiye rezhimy

shakht)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree

of Candidate of Technical Sciences, presented to the In-t gorn. dela AN SSSR (Institute for Mining, Academy of Sciences, USSR),

1958

ASSOCIATION: In-t gorn, dela AN SSSR (Institute for Mining, Academy of

Sciences, USSR), Moscow

1. Fluid flow--Analysis 2. Gas flow--Analysis 3. Mining industry

--USSR

Card 1/1

A CANAL SECTION AND SECTION OF THE S

YAGKL'SKIY, A.H.; KLRRANOV, F.S., otv.red.; RATNIKOVA, A.P., red.isd-ve; REKKER, O.G., tekhn.red.

5、中国之后是近**代在**到于1月18日,1月至少年上

[Thermal calculations of ventilation air for workings with dead-end face in deep coal mines] Teplovye reschety ventilistsionnogo vozdukha vyrabotok s tupikovym zaboem v glubokikh ugol'nykh shakhtakh. Mozkva, Goz.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 143 p.

(MIRA 13:11)

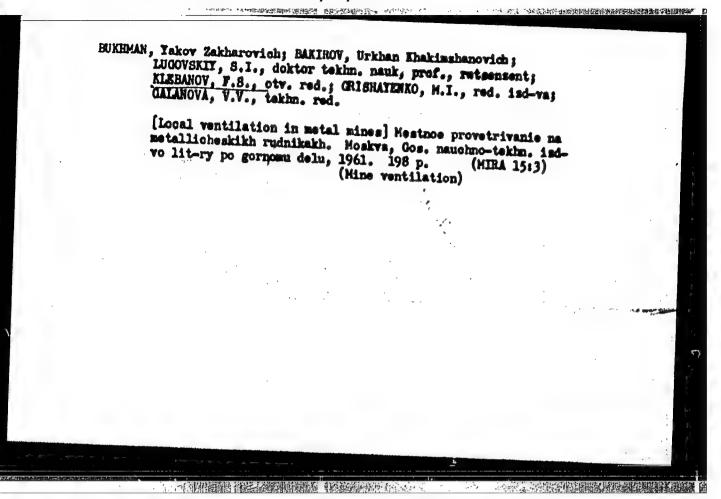
THE STATE OF THE S

LIDIN, Georgiy Dmitriyevich, nauchnyy sotr.; AIRUNI, Arsen Tigranovich, nauchnyy sotr.; KIEBANOV, Feliks Semenovich, nauchnyy sotr.; MATVIYENKO, Nikolay Grigor yevich, nauchnyy sotr.; CHEDIN, V.Ye., otv. red.; SMIRENSKIY, N.M., red. isd-va; IL'INSKAYA, G.M., tekhn. red.

[Controlling accumulations of methane in coal mines] Bor'ba so skopleniami metana v ugol'nykh shakhtakh. Hoskva, Gos. nauchnotekhm. izd-vo lit-ry po gornomu delu, 1961. 140 p. (HIRA 15:1)

1. Institut gornogo dela im. A.A.Skochinskogo (for Lidin, Ayruni, Klebanov, Matviyenko).

(Mine gases)



KREMENCHUTSKIY, Nikolay Feofanovich; BURCHAKOV, A.S., kand. tekhn. nauk, retsensent; OREKHOV, V.S., kand. tekhn. nauk retsensent; KLEBAHOV, F.S., kand. tekhn. nauk; otv. red.; ZAKHAROV, M.I., red. isd-va; SABITOV, A., tekhn. red.; KONDRAT'YEVA, M.A., tekhn. red.;

[Ventilation of coal mines] Provetrivanie ugol'nykh shakht. Hoskva, Gos. nauchno-tekhn. isd-vo lit-ry po gornomu delu, 1961. 239 p. (Mine ventilation) (MIRA 15:1)

KIEBAHOV, F.S., kand.tekim.nauk; ROSSOCHINSKIY, V.I., gornyy insh.

Effect of pulp motion in the troughs on the flow of ventilation air in the workings. Ugol' 36 no.5133-35 Hy '61.

(Hydraulio mining) (Mine ventilation)

(Hydraulio mining) (Mine ventilation)

LUGOVSKIY, Sergey Ivanovich; DUGANOV, G.V.; BARATOV, E.I.; BAKIROV,
U. Eh.; CHERNOUS, A.P.; RIEBANOV, F.S., otv. red.;
SHIRKNSKY, M.M., red.izd-va; SHKIRAR, S.Ia., tekhn. red.

[Ventilating deep mines]Provetrivanie glubokikh rudnikov.
Moskva, Gosgortekhizdat, 1962. 322 p. (MIRA 15:11)

(Mine ventilation)

" Salar " Abilitation of Englishmen

THE MERCHANISM TO PROVIDE

KLEBANOV, P.S.

Ventilation of a dead-end face with an operating hydraulic giant.

Gor. i ekon. vop. rawrab. ugol'. i rud. mest. no.1:177-181 '62.

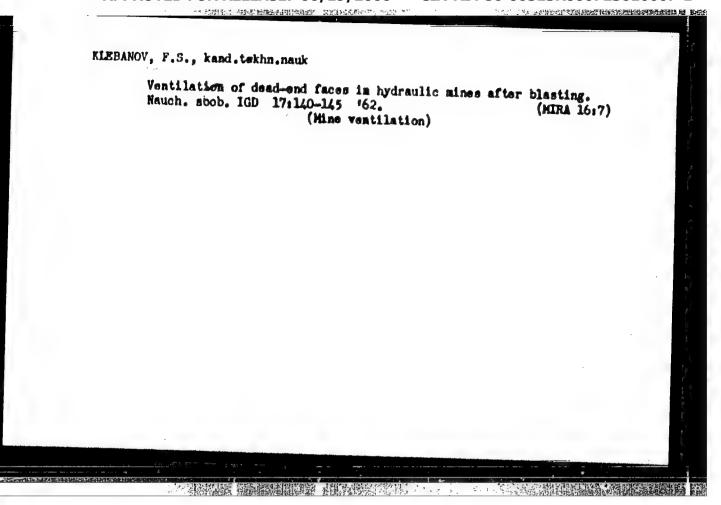
(Hydraulic mining) (Hine ventilation)

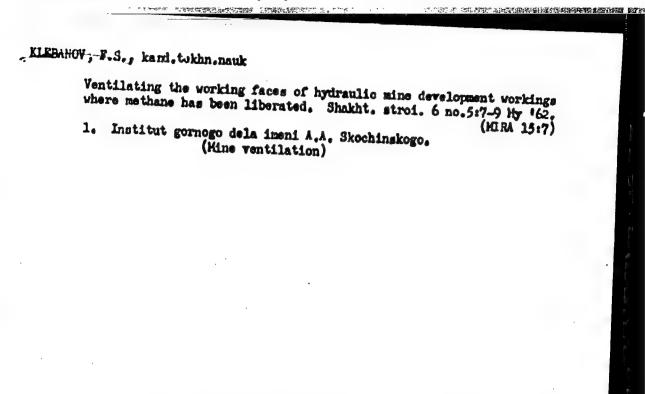
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· "我们""学科区的"包含"和"说,是"是是我们。

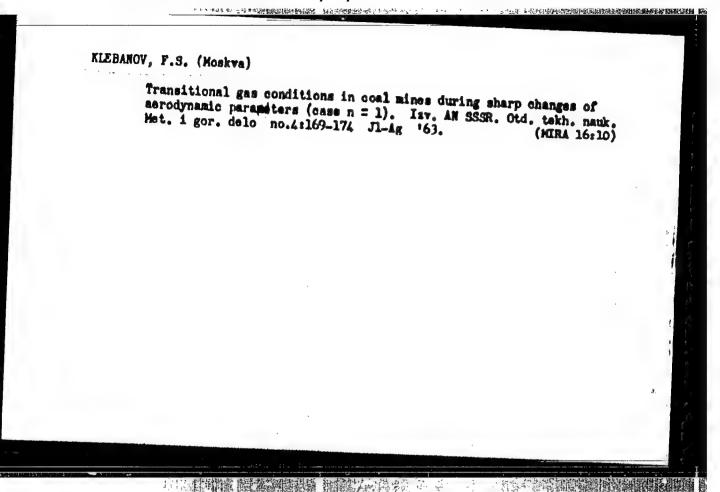
## KLEBANOV, F.S.

Reducing the concentration of explosion gases in a dead-end face with an operating hydraulic giant. Gor. 1 ekon. vop. rasrab. ugol'. 1 rud. mest. no.1:274-280 '62. (MIRA 16:7) (Rydraulic mining) (Blasting)





A TOWN A SERVICE STREET, SECTION OF THE PARTY OF THE PART THE PROPERTY OF THE PROPERTY O KLEBANOV, F.S., kand. tekhn. nauk; ROSSOCHIMSKIY, V.I., insh.; MYASNIKOV, A.A., kand. tekhn.nauk; BARATOV, E.I., kand. tekhn.nauk; MALASHENKO, E.N., insh., KOREPANOV, K.A., kand. tekhn. nauk; SKLYAROV, A.A., kand. tekhn. nauk; SYROYEZHKIN, P.V., insh.; KUKHARSKIY, M.P., insh.; VORONINA, L.D., otv. red.; BERKGAUT, V.G., red.12d-va; DOROKHINA, I.N., tekhn. red. [Improving mine ventilation methods in hydraulic mining] Sovershenstvovanie sposobov proveterivaniis vyrabotok gidroshakht. [By] F.S. Klebanov i dr. Hoekve, Isd-vo Al SSSR, 1963. 156 p. (MIRA 16:10) (Mine ventilation) (Hydraulic mining) THE STANDARD BEAUTION OF THE STANDARD S



KIESANOV, F.S., kand. tekin. nauk; AYRUNI, A.T., Kand. tekin. nauk

Dependence of the methans abundance of a section on the quantity
of air supply. Ugol' 38 no.1:39-43 Ja '63. (MIRA 18:3)

1. Institut gornoge dels im. A.A. Skochinskoge.

## "APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723010007-1

EAGRIBOVSKIY, Aleksey bmitriyevich, kand. tekhn. nauk; {LEcably, Felika Genenavich, kand. tekhn. nauk; VCCCBAA, L.D., kand. tekhn. nauk, otv. red.

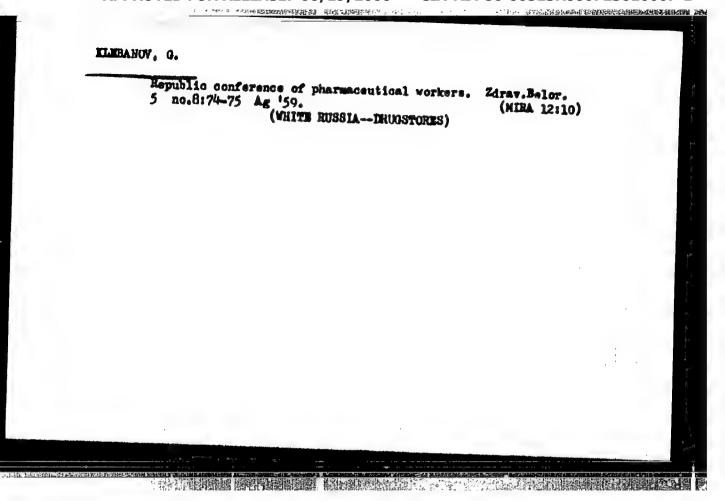
[Theoretical problems of the autoration of cold sine ventilation] leoreticheskie voprocy autoratizatell provetrivanila ugo! nykh shakht. Mockva, hauka, 1965. 60 p. (U.A 18:0)

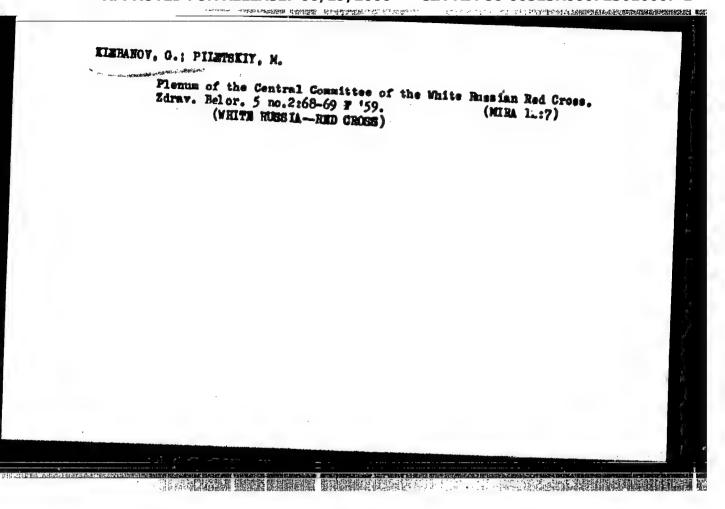
CONTROL CONTROL STREET STREET BEING THE

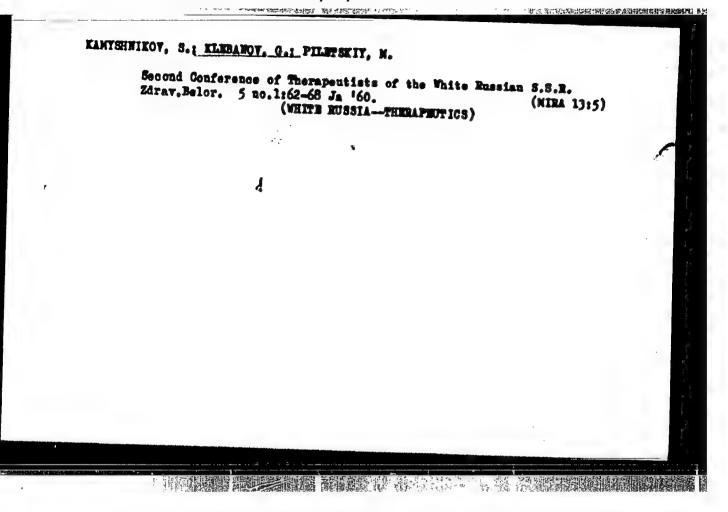
KIERAHOV. G.: PILETERIY. M.

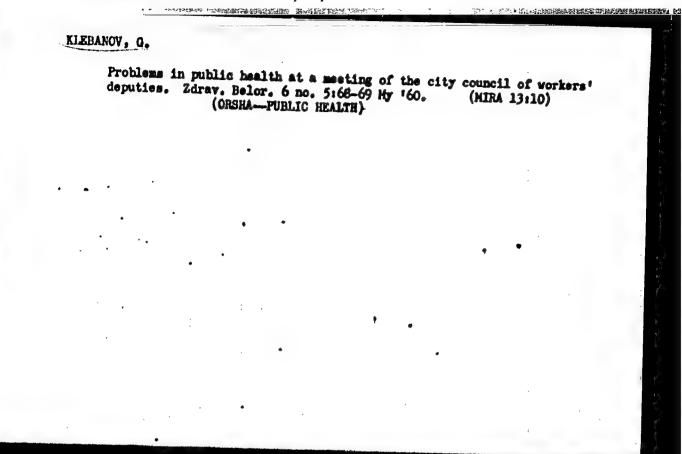
Plenum of the Central Committee of the White Russian Red Cross.
Zdrav. Belor. 5 no.2:68-69 F '59.
(WHITE HUBSIA-RED GROSS)
(WHITE HUBSIA-RED GROSS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1"









KLEBANOV, G.; KAMYSHNIKOV, S.

Republic conference of workers in the public health service of the White Russian S.S.R. Zdrav. Belor. 6 no.6:17-26 Je '60. (MIRA 13:8)

(WRITE RUSSIA—PUBLIC HEALTH)

(WRITE RUSSIA—MEDICAL PERSONNEL)

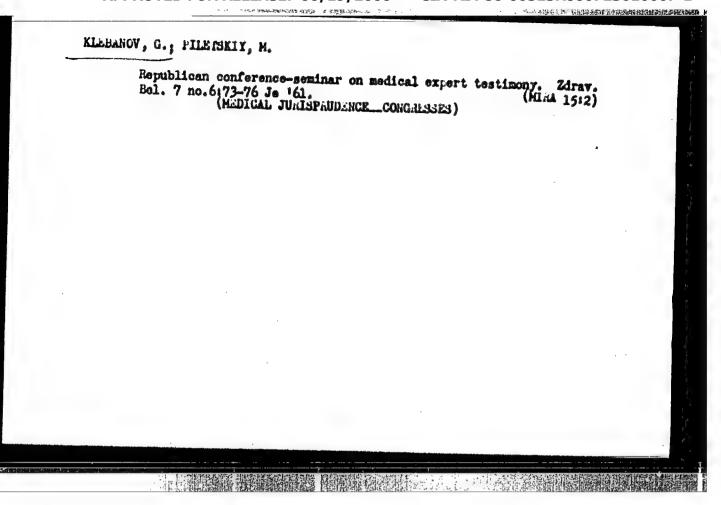
KAMYSHNIKOV, S.; KLEBANOV, G.; PILETSKIY, M.

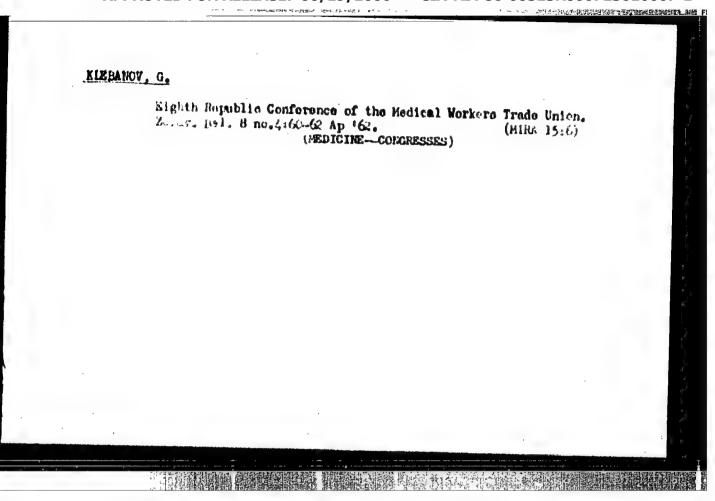
Highth Congress of the White Russian Red Cross Society. Zdrav.

Bel. 7 no.5:64-67 My '61.

(WHITE RUSSIA—RED CROSS—CONGRESSES)

(WHITE RUSSIA—RED CROSS—CONGRESSES)



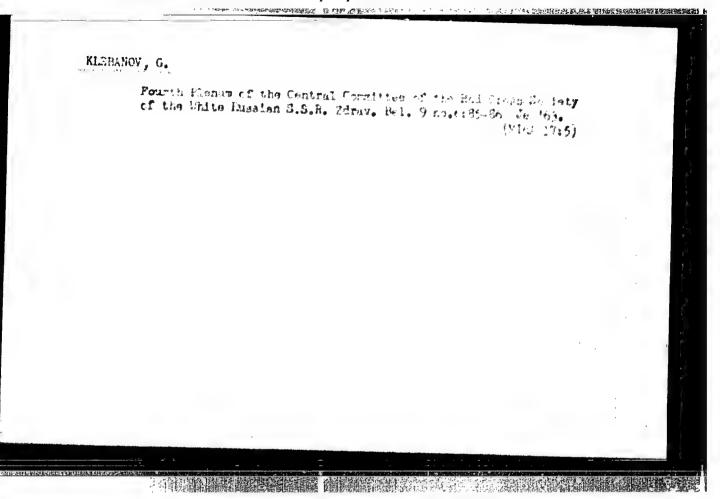


THE PROPERTY OF THE PROPERTY O

MOGILEVCHIK, Z.K.; GABRILOVIXH, M.A.; ARINCHIN, H.I.; DMITRIXEV, A.; KANTOR, D.; KLEBANOV, G.: PILETSKIY, M.

Congresses, conferences, meetings. Zdrav. Bel. 8 no.6:68 Je 162.
(NO SUBJECT HEADINGS)

(HIRA 16:8)



KLEBANOV, G.; PILETSKIY, M.

Republic Conference of the Trade Union of Medical Personnel. Zdrav. Bel. 9 no.8:89-91 kg\*63 (MIRA 17:3)

RIEBANOV, G.S., insh.; RHAZANSKIY, S.A., insh.

7.108 crawler tractor for industrial purposes. Trakt. i sel'khozmash. 31 no.11:4-5 N '61. (MIRA 14:12)

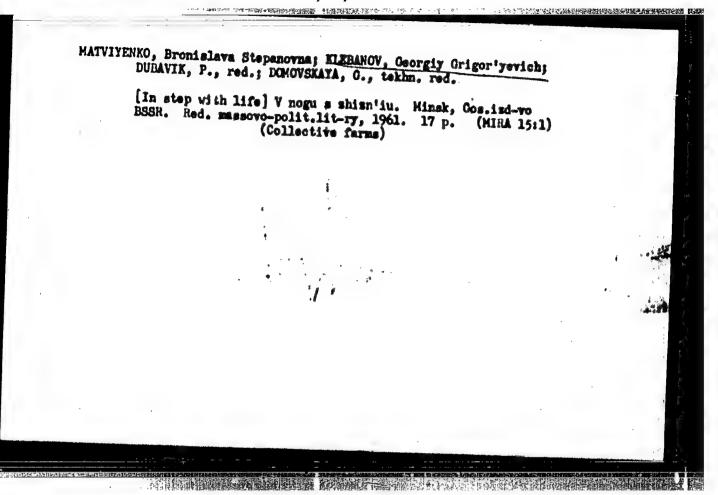
1. Chelyabinskiy traktornyy savod. (Crawler tractors)

、中华国际中华2012年100年10日12日12日12日

MIN'KO, Leonid Iosifovich; GNILORYBOVA, T.Ye., saslushennyy deyatel: mauk UkrGSR, prof., nauchnyy red.; KLEBANOV, G.E., red.; ZIMA, Ye.G., tekha, red.

> [Popular medicine and the harm of quackery] Narodmaia meditaina i vred snakharstva. Hinsk, 1962. 40 p. (Obshchestvo po rasprostrameniiu politicheskikh i mauchnykh snanii Belorusskoi SSR, no. 19) (MEDICINE, POPULAR) (QUACKS AND QUACKERY)





KLEGHNOV, Cr. ...

Penictilin combined with embedded in erestment of prederm.

Vest. vener. No. 4, July-Aug. 50. p. 33-6

1. Of Leningred No. 3 Skin-Tenercological Dispensary (Head Physician—Te. A. Shaydin).

GLML 19, 5, Nov., 1950

DOBRYMIN, 1.Y.; HIMBANOV, G.M., inshener, nauchnyy redaktor; UDOD, V.Ta., redsktor; TOLEH, A.H., tekhnicheskiy redsktor.

[Advanced work methods for electric welders in construction work]

Peredovye metody raboty elektrosvarshchikov-stroitelei. Moskva,

Gos. ind-vo lit-ry po stroit. i arkhitekture, 1954. 26 p.

(Hlectric welding)

(MLRA 7:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1"

· "大人。" "大人,我们都是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,

GUSHCHINA, L.S. (Meskya); KLMBANOY, G.H. (Meskya); SHORSHOROY, M.Kh. (Meskya).

Changes in the structure and mechanical properties of lew-alley steel near the seam line caused by fusion welding. Inv.AN SSSR Otd.tekh.
nauk ne.8:131-134 Ag 156. (MIRA 9:9)

1.Institut metallurgii imeni A.A. Baykeva AN SSSR. (Steel alleys--Welding)

Submitted : No date

ADDROVEDEO

Anch Gill.

137-58-3-5170

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 100 (USSR)

AUTHORS: Shorshorov, M. Kh., Klebanov, G. N.

TITLE:

Methods and Apparatus Employed for Investigation of Changes Occurring in Structure and Mechanical Properties of the Heat-affected Zone in the Course of the Thermal Cycle of Welding (Metod i apparatura dlya issledovaniya izmeneniy struktury i mekhanicheskikh svoystv zony termicheskogo vliyaniya v usloviyakh termicheskogo tsikla svarki)

PERIODICAL: Tr. In-ta metallurgii, AN SSSR, 1957, Nr 1, pp 199-210

ABSTRACT:

A report on methods and equipment developed for the purposes of studying the structural and mechanical property changes occurring in the parent metal in the thermal cycle (TC) of welding. Thin, rod-like specimens are heated by the passage of an electric current, and are then cooled in accordance with the given TC of welding. The heating of the specimens is controlled by varying the current according to a given schedule, while the cooling is accomplished by gas blowing, spraying with water, or with the aid of passing low-amperage currents through the specimen. In studies of the kinetics

Card 1/3

137-58-3-5170

Methods and Apparatus Employed for (cont.)
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007of phase transformations or of grain growth, the specimen (3x5 mm2 in cross section) is sharply quenched in water at specific points in the TC. After polishing and subsequent etching the specimen is subjected to metallographic analysis, in the course of which the phase composition and the grain size are determined. Temperature changes occurring in the central section of the specimen during heating or cooling are measured by means of a thermocouple and recorded on an oscillograph tape. In studies of the changes in mechanical properties occurring during the TC, 3x5x150mm3 specimen, with 5-mm-radius cut-outs on both sides, is secured in the jaws of a tensile strength testing machine; after being heated according to a given TC, the specimen is quickly brought up to fracture at specified time points. Curves showing the changes in stress and elongation of the specimen as functions of time are recorded on the oscillograph by means of a TL-20 type induction transducer and a resistance transducer. A 40 kva transformer supplies the heat energy for the experimental installation. For purposes of regulation of the heating current passing through the specimen, a fluid rheostat with a metal blade having a suitably specified shape is connected in series with the transformer primary. The blade of the rheostat is shaped in accordance with the law governing the current variation in the specimen; the current is computed numerically for the given TC of welding by utilizing

137-58-3-5170

# Methods and Apparatus Employed for (cont.)

the differential equation for the caloric balance of the heating of a conductor due to the passage of a current. A tensile strength testing machine, employing an electromagnetic system powered by a 60-v direct current, is capable of exerting forces up to 1200 kg, and can produce high deformation speeds in the metal. Thus it is possible to accomplish fracture of the specimen within 0.05 seconds or less, i. e., under conditions in which the temperature of the TC of welding varies very slightly, even at high heating and cooling rates. This method will permit the determination of Oband & of the metal of the specimen under conditions of high-speed elongation. Oband of are determined directly from the graphs, while W is computed from measurements of the neck taken in the central portion of the cut-out in the specimen before and after elongation. A 6 mm cut-out with a uniform temperature distribution is taken as the basis of the computation of  $\delta$ . By way of an illustration the authors show the changes in the mechanical properties of 35KhGSA steel, which occur near the seam during the TC of a single-pass butt welding of 35mm thick sheets at an energy input of 20,000 cal/cm.

G.K.

Card 3/3

KLEBINOV. 6. IV.

AUTHOR:

Klebanov, G.N., Engineer

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TITLE:

Welding Conference and Exhibition in Essen (Nederal German Republic)

(Konferentsiya i vystavka po sverke v Essene, FRG)

PERIODICALE

Svarochnoye Proisvodstvo, 1957, # 12, p 45-46 (USSR)

ABSTRACT:

The conference concerned was the 60th-anniversary conference of the German Welders Union with the simultaneous congress of the International Welding Institute, 25 June through 6 July 1957 in Essen. The Soviet guests were the following 12 specialists. from the USSR and the Ukrainian Academies of Sciences, scientific research institutes and industry: N.N. Rykalin, B.Ye. Paton, K.V. Lyubavskiy, A.N. Shashkov, N.Ya. Kochanovskiy, I.D. Kulagin, L.M. Yarovinskiy, B.D. Orlov, A.A. Grigor'yev, F.V. Arifaetchikov, G.R. Klebanov and N.A. Chuvakov. About 1.000 delegates from more than 20 countries participated. The author calls the exhibition the largest ever seen in the history of welding and describes briefly some of the equipment seen as well as the German plants visited after the conference, the German welding methods and the organization of special education.

AVAILABLE:

Library of Congress

Card 1/1

KLEBAHOV, C.R., Cand Took Sci-(dies) "Change in the structure and mechanical properties of low-alloy steel in the seam some under conditions of the thermal cycle of molding."

For, 1958. 13 pp (Acad Sci USCR. Inst of Lotallurgy im A. A. Baykov), 110 copies. Printed on retoprint. (EL, 258, 113)

- 99-

KLEBANOV, S.N.

AUTHOR: Klebanov, G.M.; Engineer

135-58-5-2/17

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中人与自己的法院的大型的基础的

TITLE

Effect of the Thermal Welding-Cycle on the Mechanical Properties of Low-Alloy Steel in the Zone Adjacent to the Weld (Vliyaniye termicheskogo tsikla svarki na mezhanicheskiye svoyatva nizkolegirovannoy stali v okoloshovnoy zone)

PERIODICAL:

Svarochnoye Proizvodetvo, 1958, Nr 5, pp 5-8 (USSR)

ABSTRACT:

The bead-sample (valikovaya proba) Ref. 1 is one of the most common methods of evaluating the weld-ability of steel by the changes of structure and mechanical properties in the metal adjacent to the weld. This method, however, requires much work and a considerable quantity of metal which is not always available when new steel grades are being developed. The Welding Laboratory of the Metallurgic Institute imeni Baykov, developed in 1955, the "IMet-1" method for such evaluation Ref. 2. Thin bar specimens are subjected to thermic cycles analogous to the bead-sample method cycles. This article presents some results of "IMet-1" tests on "adjacent" some properties and structures of steel grades "40 Kh", "20 KhGS", "25 KhGSA", "25KhGFA", "23 G", "25 N 3" and "12KhN2". The effect of the cooling rate was determined.

Card 1/2

135-58-5-2/17

Effect of the Thermal Welding-Cycle on the Mechanical Properties of Low-Alloy Steel in the Zone Adjacent to the Weld

Technologic recommendations are given. There are 4 diagrams, 3 tables, 13 photographs and 5 Soviet

ASSOCIATION: Institut metallurgii imeni A.A. Baykova AN SSSR (Metallurgic Institute imeni A.A. Baykov AS USSR)

AVAILABLE: Library of Congress Card 2/2

> CIA-RDP86-00513R000723010007-1" APPROVED FOR RELEASE: 06/19/2000

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AUTHORS:

Silin, L.L., Nikoleyev, A.V., Engineers, Klebanov, G.N., Candidate of Technical Sciences, Kuznetsov, V.A., Engineer

TITLE:

New Welding and Cutting Methods

PERIODICAL:

Svarochnoye proizvodstvo, 1960, No. 12, pp. 34-37

Sonic welding, plasma processing, welding with an electron beam in a vacuum, field pressure welding that diffusion welding in a vacuum. The authors report on a series of new machines for the aforementioned purposes. The UZSM-1 ultrascnic apparatus is intended for spot welding of small-size thin alloy parts or their connection with plates. The unit consists of a welding head, a device producing the static force, a time relay and an electric control system. A NMC -15 (FMS-15) type magnetostriction transformer is used to excite ultrascnic mechanical oscillations in the welding head. The static force is developed by a pneumatic diaphragm device. The force is controlled by modifying the air pressure on the supply to the diaphragm and its outlet are achieved by an electromagnetic-driven Card 1/8

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New Welding and Cutting Methods

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pneumatic distributor. The apparatus can be operated individually or automatical. ly. Oscillations may be switched-off after each spot. Spot welding of cermet contacts with bronze bridges was demonstrated on the described machine using a special device (Pigure 1). The ultrasonic Y3CM-2 (UZSM-2) apparatus for seam welling of metal was exhibited together with a technological device for welding annular diaphragms and membranes of 50-110 mm in diameter. On the seam welding device a magnetostriction transformer rotates tegether with a welding roller and a massive supporting roller. The rollers are sennected by a transmission gear. The static force is produced by means of a foot lever. The ultrascnic portable Y3CA -3 (UZSA-3) machinesis intended for one-sided welding of thin sheet parts to structures with large plane or shaped surfaces excluding the use of stationary machines. The apparatus consists of a welding head, a vacuum device and an electrical control system, and its design provides for a transmission without considerable losses of electric power from a generator at a distance of up to 50 m. This is one of the advantages of the ultrasonic welding method. The Y3TIM \_1 (UZTSh-1) ultrasonic welding machine can be used for spot or seam welding by exchanging the accoustic unit. The contact force is produced by pneumatic drive. In all the described devices the oscillations are transmitted by pressing the part to the lateral surface in the antinode of the longitudinally oscillating

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New Welding and Cutting Methods

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instrument. In the ultrasonic assembly-welding table of the MO 20,019 (1020,019) type, the oscillations are transmitted to the work from a vertical rod fixed perpendicularly to the longitudinally oscillating link of the magnetostriction transformer. This machine is used for spot welding of parts, one of which must be not ever 0.1 mm thick. Ultrasonic welding of plastics is made on the 93 17 -1 (UZP-1) and the MYT -50 (PUT-5a) machines which can be used for spot and pitchseam welding of 0.5-10 mm thick thermo-plastics and polymers. Welding with a plasma jet of low-carbon, low-alloy and high-alloy steels and alloys was demonstrated with the use of a head fixed to a TC -17MY (GS-17MU) welding machine (Figure 6). Argon is used as an operating and carbon dioxide as a shielding gas. The plasma jet and the arc are concurrent. Filler wire, introduced into the plasma jet is used to fill the gap. The current varies within 50-450 amp. A plasma jet is also used in building-up and cutting of metals. Welding with an electron beam is coming into industrial use. This process can be performed on the JAY -1 (ELU-1) unit (Figure 7) intended for welding straight seams up to 1,000 mm long and annular seams at a speed of 2-50 m/hr. The machine ocnsists of the following basic parts: a vacuum chamter, an electron gun, a mechanism displacing the work to be welded, a vacuum system, a feed source and a control unit. The electron-beam gun ensures a 1.5 kw maximum power of the beam at a Card 3/8

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New Welding and Cutting Methods

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maximum acceleration voltage as high as 22 kv. The diameter of the beam can be varied within 0.6 - 4 mm by an electrostatic and magnetic focusing system. The gun can be vertically displaced by 45 mm and the beam can be deflected in the plane perpendicularly to its direction, by 10 mm. A three-phase voltage rectifier is used as a feed source (380/22000 v). The limit vacuum in the chamber attains 5.10 mm Hg. The vacuum system consists of a forevacuum pump and a vacuum unit of 4,500 1/sec capacity. Priction welding is performed on the MCT \_# (MST-34) machine designed by <u>VNIIRSO</u> for friction butt-welding of cylindrical rods, 15-30 mm in diameter. A 15 kw motor drive is used, the rotation speed of the spindle is regulated within 500-1,000 rpm. The parts to be welded are clamped with the use of chucks. Efficiency is up to 150 welds per hour. Cold pressure welding equipment includes the MCXC -35 (MSXNS-35) (Figure 8) and the MCXC -5 (MSKhS-5) machines. The former is used for butt welding copper (up to 150 mm section) and aluminum conductors up to 300 mm2 section. Hydraulic pressure is used and the maximum force is 35 tons. The MSKhS-5 machine is intended for welding aluminum and copper conductors of 2-20 mm2 section. Pneumatic drive is usei and the upsetting force is 5 tons. The efficiency of the machine is 60 welds. per hour. The CHC -2 (SNS-2) table stand is used for welding 5 - 25 mm2 section

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aluminum conductors and 4 - 10 mm<sup>2</sup> section copper conductors; the K(-6 (KS-6) tongs are also intended for welding aluminum and copper conductors and the N(-7 (PS-7) for welding aluminum and copper wire. A unit for diffusion welding in a vacuum (CBAY -3 - SVDU-3) consists of a high-frequency tube generator operating within a range of 300 - 450 cycles, a vacuum chamber and a hydrocylinder. The required rarefaction is obtained using a diffusion pump. The parts are heated with a copper inductor made of a square tube with 1 mm thick walls. The heating temperature is controlled by a platinum-rhodium thermocouple. Twelve parts can be simultaneously welded in the chamber. The unit can be employed for welding cast-iron with steel, cermet plates to cutting tool helders, etc. Are welding of pipes rotating in a magnetic field, welding in water vapor, and high-frequency welding of plastic films were also demonstrated.

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New Welding and Cutting Methods

Technical characteristics of machines for ultrascnic welding of metals and plastics

Characteristics	Type of Unit						
	JZSM-1	JZ3M-2	/Z8A-3	UZISh-1	1020.019	-UT-5a	UZP-1
Power of the magneto-stric- tion ultra- sonic trans- former in kw Operating fre- quency in k- cycles	2,5_4,0 19,5	2,5-4,0 19,5	1,0	4,0 20	0,5 14-19	4,0 20	4,0 ×
Regulation lim- its of the con- tact force in kg Limits of welding time regulation in sec Welding speed Card 6/8	20-200 0.1-4,0 -	20-140 - 4,5-150 m/hr	5-20 - -	10-200 0,2-8 4,5-145	-	5-250 0,2-8,0 up to 200 mota/min	5-400 0,2-8,0 6-30 spotation

New Welding and Cutting Methods

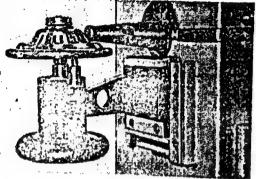


Figure 1.
Ultrasonic welding-on of cermet contacts

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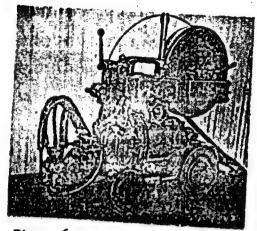
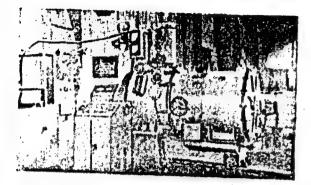


Figure 6.

The TS-17MU welding tractor converted to welding with a plasma jet

New Welding and Cutting Methods



There are 9 figures.

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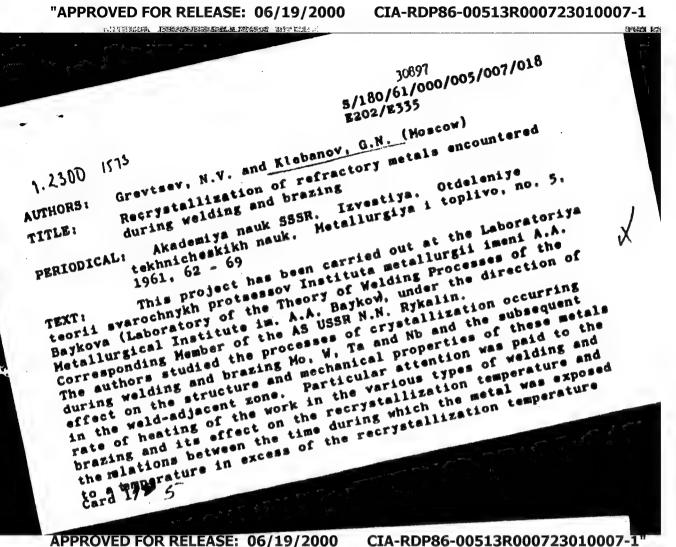
Figure 7.

The ELU-1 unit for welding with an electron beam in a vacuum

NIKONOV, A.G.; KLEBANOV, G.N.

Measuring surface temperatures during sliding friction. Izv. vys. ucheb. zav.; chern. met. no.2:122-126 '61. (MIRA 14:11)

1. Institut metallurgii im. A.A.:Baykova.
(Burfaces (Technology).-Testing)
(Car wheels--Testing)



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Recrystallization of ....

and the growth of the grain, i.e. the coalescing recrystallization. The influence of the rate of heating on the recrystallization temperature was studied on samples with varying crosssection along their length, which were heated electrically at various rates. The rate of heating of the cross-section at a distance of 5 or 10 mm from the central portion of the sample with minimum cross-section was varied from 40 to 2 200 deg/sec. These rates of heating embraced all the conditions encountered in the various types of welding and brazing. In the case of welding, heat-propagation is within 2 000 - 2 500 deg/sec for a metal thickness of 1.0 - 1.5 mm; in the case of brazing it is of the order of hundreds of degrees per second. The samples were studied metallographically: the region where recrystallization has started was determined by observing in the texture of the rolled sample the appearance of the first equiaxial grain. Knowing the temperature distribution and the rates of heating along the sample, it was possible to determine the velocity of heating in the zone and the maximum temperature at which the recrystallization started at a given rate of heating. In the case of niobium, microhardness (VPN) tests were carried out Card 2/ 5

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Recrystallization of ....

additionally and the samples were also used for determining the effect of duration of the exposure to temperature above the recrystallization temperature on the size of the grain and the effect of the grain size on the hardness. The samples were heated in an argon-filled, hermetically-sealed chamber and they were protected during the mechanical tests by a stream of argon. The temperature in the middle part of the sample was measured with the W/Re thermocouples and at the extremities with Pt/Pt-Rh thermocouples. The junctions were inserted into small holes and welded-in by means of a condenser discharge. The tests showed that with fast heating rates, i.e. under welding conditions, the temperature at which recrystallization starts increases by 250 and 400 °C, respectively and tends to a limit value. In the case of tantalum and niobium, these temperature increases are 120 - 150 °C and 170 - 200 °C, respectively. Under fast heating a considerable growth of the Mo grain was observed above 1 600 °C; the coalescing recrystallization was most intensive on increasing the temperature to which the sample was heated and even a slightly prolonged exposure to temperatures above the recrystallization temperature Card 3/9 5

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Recrystallization of ....

produced a visible growth of the grain. Hence, shortening of this heating time is of value only in the case of welding where the base metal is heated to the vicinity of its melting point. In the case of brazing, where the working temperatures are below 1 600  $^{\circ}$ C, the duration of the process has little or no effect on the grain growth in the base metal. If the brazing temperatures are in excess of 1 600 °C it is advisable to use a HF induction heating. The authors conclude that the grain growth of tantalum and niobium is influenced, firstly, by the temperature to which the sample is heated and, secondly, by the duration of the exposure to temperatures above the recrystallization temperature during heating and cooling. Hence, it is recommended that welding of these metals should be carried out either with very heavy currents and high welding speeds, or by means of highly concentrated heating and deep penetration, e.g. by means of an electron beam. On the basis of their experiments the authors constructed a diagram for Nb with isotherm plots relating the grain size to the rate of heating and the working temperature (Fig. 6). The parameters chosen cover the usual

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Territoria de la companion de The Second All-Union Conference on Rhenium, sponsored by the Institute of 39 Metallurgy imeni A. A. Baykov, Academy of Sciences USSR, and the State Institute of Rare Metala was held in Moscow 19-21 November 1962. A total of 335 representatives from 83 scientific institutions and industrial establishments participated. Among the reports presented were the following: autoclave extraction of Re from Cu concentrates (A. P. Zelikman and A. A. Peredereyev); Re extraction from the gaseous phase .(V. P. Savrayev and N. L. Peysakhov); recovery of Re by sorption and ion interchange (V. I. Bibikova, V. V. Il'ichenko, K. B. Lebedev, G. Sh. Tyurekhodzhayova, V. V. Yermilov, Ye. S. Raimbekov, and M. I. Filimpnov); production of carbonyl Re (A. A. Ginzburg); electrolytic production of high-purity Re and electroplating with Re (Z. M. Sominskaya and A. A. Nikitina); Re coatings on refractory metals produced by thermal dissociation of Re chlorides (A. N. Zelikman and N. V. Baryshnikov); plastic deformation and thermomechanical treatment of Re (V. I. Karavaytsev and Yu. A. Sokolov); growth of Re single crystals and effect of O a on their properties (Ye. M. Savitskiy and G. Ye. Chuprikov); Re-Mo, Re-W, and Re-precious-metal alloys (Ye. M. Savitskiy, M. A. Tylkins, and K. B. Povarovaj; synthesis of Re nitrides, silicides, phosphides, and selenides (G. V. Samsonov, V. A. Obolonchik, and V. S. Neshpor); weldability of Re-Mo and Re-W alloys (V. V. D'yachenko, B. P. Morosov, and Q. K. Klebanov); new fields of application for Re and Re siloys [M. A. Tylkina. and Ye. M. Savitskiy); and Re-Mo alloy for thermocouples Danishevskiy, Yu. A. Kochershinskiy, and G. B. Lapp). Tevetnyre metally, no. 4, Apr 1963, pp 92-93 THE PROPERTY OF THE PARTY OF TH

L 29926-66 EMP(k)/EMT(m)/T/EMP(w)/EMP(v)/EMP(t)/ETI IJP(c) JD/HM/JG

ACC NR. AP6017991 (A) SOURCE CODE: UR/0413/66/000/010/0092/0092

INVENTOR: Klebanov, G. N.; Chernyshova, T. A.

ORG: none

TITLE: Method of determining the resistance of <u>welds</u> to hot <u>crack formation</u>.

Class 42, No. 181860 [announced by the <u>Institute of Metallurgy im. A. A. Baykov</u> (Institut metallurgii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 92

TOPIC TAGS: niobium, niobium alloy, alloy welding, weld, weld cracking, hot cracking cracking susceptibility, susceptibility evaluation

ABSTRACT: This Author Certificate introduces a method of evaluating weld susceptibility to hot cracking by depositing a bead on the tested metal plate and recording the bead length to the first crack. For quantitative evaluation of the susceptibility to hot cracking in welded thin niobium-alloy sheets, a narrow notch is cut in the sheet specimen and the bead is deposited over the root of the notch, perpendicular to the latter. The maximum length of the bead between the notch and the first crack serves as a basis for evaluating weld susceptibility to hot cracking.

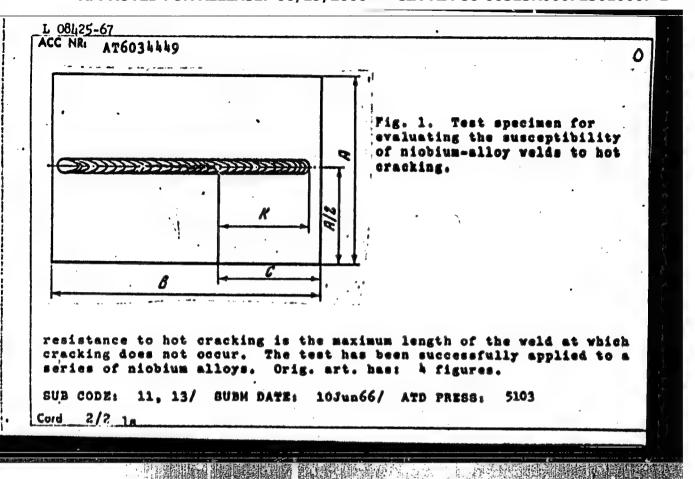
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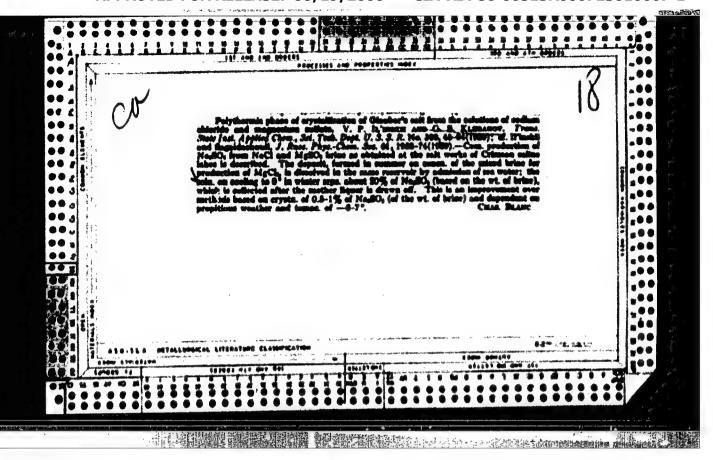
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UDC: 620,179.

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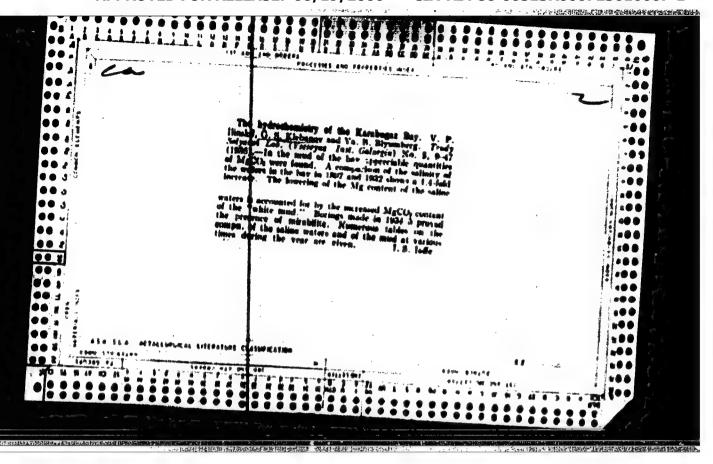
NRI ATGO34449 (W)/EWP(x)/EWP(t)/ETI/EWP(k) ACC NRI ATG034449 AUTHOR: Klebanov, G. N.; Chernysheva, T. A. 32 149 ORG: none TITLE: Test for evaluating the susceptibility of miobium-alloy welds to hot cracking SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh splavov (Properties and application of heat resistant alloys). Moscov, Izd-vo Nauka, 1966, 135-139 TOPIC TAGS: niobium alloy, attobiem choy welding, mindring weld not cracking, hot cracking susceptibility, weld Kent treat ABSTRACT: A new testing method for evaluating the susceptibility of niobium-alloy welds to hot cracking has been proposed. The test specimens are made of niobium-alloy sheets 1 mm thick and 50 or 80 mm wide with a narrow slit cut in them (see Fig. 1). A weld bead is deposited on the specimen in such a way that the center line of the weld goes through the end of the slit. The rate of deformation is determined by measuring the speed at which the slit opens. The deformation rate increases with increasing length of the weld between the starting point and the slit and with increasing welding speed. The criterion of weld Card 1/2



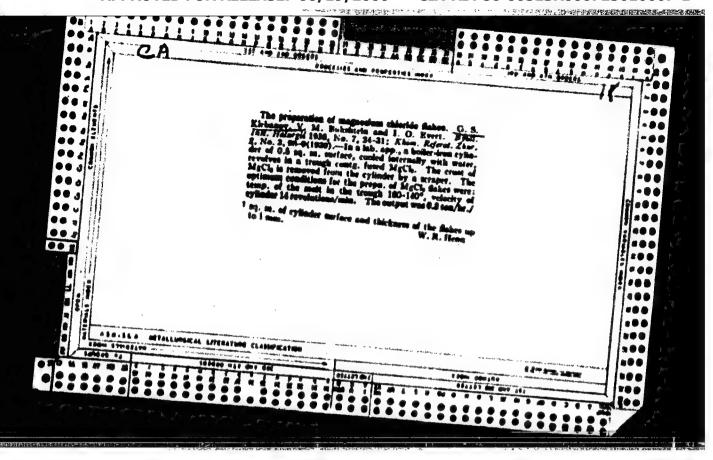


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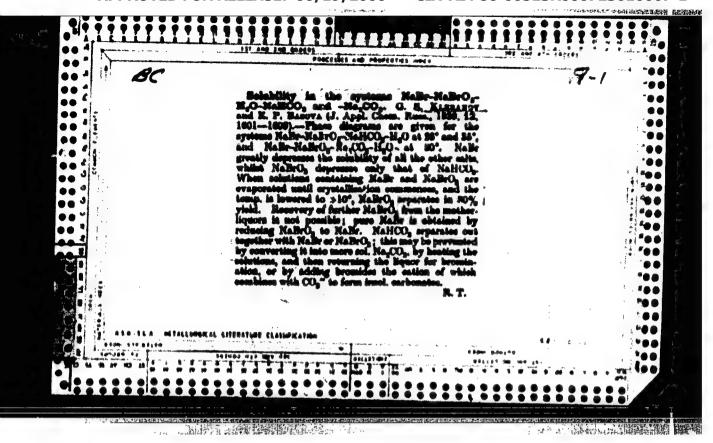
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POZIE, Maks Yefimovich; KIMBANOV, O.S., redaktor; ERLIKH, Ye.Ya., tekhnicheskiy redaktor

[Technology of mineral fertilizers and salts] Tekhnologiia mineral'nykh udobrenii i solei. Leningrad, Gos. nauchno-tekhn. izd-vo khim. lit-ry. 1956. 352 p. (MLRA 10:3) (Fertilizers and manures) (Selts)

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KLEBAROV, G.S.; OSTAPKEVICH, W.A.

Solubility of sodium and potassium sulfites and sodium thiosulfate in water - alcohol solutions. Ehur. neorg. khim. 5 no.10:2329-2332 0 160. (MIRA 13:10)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(Sodium sulfite) (Potassium sulfite)
(Sodium thiosulfate)

\$/080/60/033/009/004/021 A003/A001

AUTHORS:

Klebanov, O.S., Ostankevich, N.A.

· 在中国的 1995年 1995

TITLE:

The Interaction of Selenium With Aqueous Solutions of Sulfites of

Alkali Metals

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 9, pp. 1957-1961

TEXT: The solubility of selenium in solutions of sodium and potassium sulfite was studied within the temperature range of 0-152°C. It was established that the solubility of selenium is characterized by the coefficients

 $K_1 = \frac{\text{Se}}{\text{SO}_3^2}$  and  $K_2 = \frac{\text{SeSO}_3^2}{\text{SO}_3^2}$ ,

which are directly proportional to the concentration of So<sub>2</sub><sup>-</sup> at constant temperature. At a pH value above 7.3-7.5 the solubility of scienium increases, at lower pH values it decreases due to side reactions taking place. At a given pH value and constant temperature the solubility of scienium depends only on the solubility of the reaction mass above card 1/2

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The Interaction of Selenium With Aqueous Solutions of Sulfites of Alkali Metals

solution after 30 min. Under equal initial conditions (concentrations of the sulfites, pH value, intensity of stirring, size of selenium crystals) the equilibrium in the solution is attained at 90°C 25 times faster than at 20°C. There are 5 figures, 1 table and 5 references: 4 Soviet, 1 German.

SUBMITTED: March 17, 1960

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723010007-1"

5000 网络圆翅科 经经营证

POZIH, Maks Yefimovich. Prinimali uchastiye: ARSEN'YEVA, L Z.; KAGANOVICH, Yu.Ya.; KLERANOV, G.S.; KLEVKE, V.A.; KOPYLEV, B.A.; SOKOLOVSKIY, A.A.; MAKOVETSKIY, L.A., red.; GRIVA, Z.I., red.; ERLIKH, Ye.Ya., tekhn. red.

[Technology of mineral salts; fertilizers, pesticides, industrial salts, oxides and acids] Tekhnologiia mineral'nykh solei; udobremii, pestitsidov, promyshlennykh solei, okislov i kislot. 2., isd. perer. i dop. pri uchastii: L.Z.Arsen'evoi i dr. Leningrad, Gos. nauchmotekhn. isd-vo khim. lit-ry, 1961. 1008 p. (MIRA 14:10) (Fertilizers and manures) (Salts)

KLEBANOV, G.S.; NAYDIS, F.B.; PAKHCHOVA, N.V.

Extraction of bromine from waste products of synthomycin production. Hed. pross. 16 no.1:28-34 Ja '62. (MIRA 15:3)

1. Leningradskiy khimiko-farmatsevicheskiy institut. (BROMIES) (CHLOROMICETIN)

KLEBANOV, G.S.; OSTAPKEVICH, N.A.

Production of potassium and sodium selenosulfates. Zhur.prikl.khim.
35 no.1:186-188 Ja \*62.

(Sodium selenosulfate) (Potassium selenosulfate)

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S/080/62/035/006/003/013 D204/D307

AUTHORS: Klebanov, G. S. and Ostankevich, N. A.

TITLE: The preparation of cadmium selenide

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 6, 1962,

1199-1206

TEXT: CdSe was prepared by the gradual addition of aq. CdSO<sub>4</sub> or CdCl<sub>2</sub> to a calculated amount of aq. Na<sub>2</sub>SeSO<sub>3</sub>, by the reaction which was proved to be Cd<sup>2+</sup> + SeSO<sub>3</sub><sup> $\pm$ </sup> + H<sub>2</sub>O  $\longrightarrow$  CdSe + 2H<sup>+</sup> + SO<sub>4</sub><sup> $\pm$ </sup>. The precipitate was washed with water, dried at 110 - 120°C and analyzed. With a molar ratio (n) of Se to SO<sub>3</sub><sup> $\pm$ </sup> (in the selenosulphate) equal to 0.42, the yield of CdSe increased from 36.1% at 0°C to 90.8% at 150°C. Below 60°C the main products were CdSe, CdSO<sub>3</sub> and  $\sim$ 0.2% of free Se. At 60 - 150°C up to 1.9% CdS was also found. The proportion of CdSO<sub>3</sub> decreased with rising temperature.

Card 1/3

The preparation of ...

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Formation of Se is ascribed to a side reaction: SeSO<sub>3</sub><sup>2</sup> + 2H<sup>3</sup> → Se + SO<sub>2</sub> + H<sub>2</sub>O. Cadmium sulphite was readily removed with 0.5 N/HCl and Se with hot IM Na<sub>2</sub>SO<sub>3</sub>. Separation of CdSe and CdS was very difficult. The optimum value of n at 96°C was 0.57, whilst the concentration of Na<sub>2</sub>SO<sub>3</sub> from which the Na<sub>2</sub>SeSO<sub>3</sub> was prepared, the Cd<sup>2+</sup>:Se ratio and the time of holding the product at 96°C had practically no effect on the yields of CdSe. The addition of Cd<sup>2+</sup> to the Na<sub>2</sub>SeSO<sub>3</sub> should be completed in 0.5 - 1 hour. Acidity of the medium in dependence on the amount of Cd<sup>2+</sup> added and the effects of Na<sub>2</sub>CO<sub>3</sub> additions on the yield and composition of CdSe were also investigated. Conclusions: (1) To obtain >99.9% pure CdSe in~48% yield n should be 0.42 and the temperature of reaction <60°C. CdSO<sub>3</sub> is removed with hot 0.5N HCl or 20% NH<sub>4</sub>OH, followed by wash—ing with hot 1M Na<sub>2</sub>SO<sub>3</sub> to dissolve Se. (2) For 96 - 97% yields of Card 2/3

S/080/62/035/006/003/013 D204/D307

The preparation of ...

CdSe containing 0.5% CdS, the reaction should be carried out at  $96-100^{\circ}\text{C}$ , with n=0.71-0.72, adding  $\text{Na}_{2}\text{CO}_{3}$  to neutralize the acid formed. The product is then washed with warm 0.5N HCl to remove  $\text{CdCO}_{3}$ . There are 1 figure and 9 tables.

SUBMITTED: July 3, 1961

Card 3/3

S/080/62/035/007/003/013 D267/J307

AUTHORG:

Mehamov, G.S. and Ostapkevich, N.A.

TITLE:

The reaction between sclenium and aqueous solutions

on salts of heavy metals

PERTODICAL:

Caural prikladnoy khimii, v. 35, no. 7, 1962,

1405-1467

according to the equation: But \*  $3H_2O \rightleftharpoons 2H_2O + H_2O_3$ . No  $SeO_3^2$  and  $Se^2$ —ions could be detected iodometrically when an aqueous suspension of Se (SecH\_2O = 1:200) was kept at  $90^{\circ}$ C for 12 hours, pH being varied between 5 and 7. No precipitates of sclenides were observed when sales of Sn, Cd, Pb and Cu(TI) were added. On the contrary, insoluble solenides and  $SeO_3^2$ —ions were obtained upon addition of sales of Sh\_0 \infty Cu(TI) and Hg(TI). Thus the equilibrium of the reaction Suc \* SH\_2O \infty 2H\_2Se + H\_2SeO\_3 is strongly shifted to the left; the reaction involved can be utilized to obtain selemides of metals, whose solubility is less than  $10^{-25}$  g-mole/1. It Card 1'2

5/080/62/035/007/003/013 D267/D307

The reaction between ...

is consider to add substances which reduce the selenious acid

form: There are 5 figures.

SUBMITTIED: May 11, 1961

Card 2/2

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KHALETSKIY, A.M.; KLEBANOV, G.S., red.;

[Pharmaceutical chemistry; inorganic corpounds] Farmatsevticheskaia khimiia: neorganicheskie soedineniia; uchebnoe posobie dlia studentov-sacchnikov. Leningrad, Leningradskii khimiko-farmatsevticheskii institut, 1963. 126 p. (MIRA 16:12)

(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

九五川 1591日中央,1400年121日 1898年121日 - 東京の日本会社会

KLEBANOV, G.S.; MORO 20VA, A.V.

Solubility of lodine in sulfuric acid solutions. Zhur.prikl.khim. 37 no.1:207-209 Ja '64. (MIRA 17:2)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

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KLEBANOV, G.S.; PINCHUK, G.Ya.

Solubility in the systems KI - NaI - H<sub>2</sub>O, KI - HI - H<sub>2</sub>O, NaI -

Solubility in the systems KI - NaI - H<sub>2</sub>O, KI - HI - H<sub>2</sub>O, NaI - HI - H<sub>2</sub>O, MgI<sub>2</sub> - HI - H<sub>2</sub>O. Zhur. prikI. khim. 37 no.2:289-293 F '64. (MIRA 17:9)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

